

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Gyudong Kim and Min-Kyu Kim
Filed : Concurrently Herewith
For : DIFFERENTIAL AMPLIFIERS USING ASYMMETRIC
TRANSFER CHARACTERISTICS TO SUPPRESS INPUT
NOISE IN OUTPUT LOGIC SIGNALS

Docket No. : 371798023US

Commissioner for Patents
Washington, DC 20231

ELECTION UNDER 37 C.F.R. §§ 3.71 AND 3.73AND POWER OF ATTORNEY

Sir:

The undersigned, being Assignee of the entire interest in the above-identified application by virtue of an Assignment filed concurrently herewith, a copy of which is enclosed, hereby elects under 37 C.F.R. § 3.71, to prosecute the application to the exclusion of the inventors.

Assignee hereby appoints JERRY A. RIEDINGER, Registration No. 30,582; MAURICE J. PIRIO, Registration No. 33,273; MICHAEL D. BROADDUS, Registration No. 41,637; CATHERINE HONG TRAN, Registration No. 43,960; ROBERT G. WOOLSTON, Registration No. 37,263; PAUL T. PARKER, Registration No. 38,264; JOHN M. WECHKIN, Registration No. 42,216; CHRISTOPHER DALEY-WATSON, Registration No. 34,807; STEVEN D. LAWRENZ, Registration No. 37,376; JAMES A.D. WHITE, Registration No. 43,985; STEPHEN E. ARNETT, Registration No. 47,392; EDWARD S. HOTCHKISS, Registration No. 33,904; JAMES NICKELSON, Registration No. 46,140; MARK A. THOMAS, Registration No. 37,953; BRETON A. BOCCHIERI, Registration No. 31,739; BARBARA B. COURTNEY,

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Registration No. 42,442; PETER J. DEHLINGER, Registration No. 28,006; LEE ANN GORTHEY, Registration No. 37,337; RICHARD L. GREGORY, Registration No. 42,607; LINDA R. JUDGE, Registration No. 42,702; MICHAEL MARTENSEN, Registration No. 46,901; JUDY M. MOHR, Registration No. 38,563; and LARRY THROWER, Registration No. 47,994, all of Perkins Coie LLP, Assignee hereby appoints ROBERT G. WOOLSTON of Perkins Coie LLP, as the principal attorney with full power of substitution, association, and revocation to prosecute said application, to transact all business in the Patent and Trademark Office connected therewith, and to receive the letters patent therefor. Please direct all correspondence to Customer Number 25096.

Bar Code:



25096

PATENT TRADEMARK OFFICE

Pursuant to 37 C.F.R. § 3.73, the undersigned duly authorized designee of Assignee certifies that the evidentiary documents have been reviewed, specifically the Assignment to Silicon Image filed concurrently herewith for recording, a copy of which is attached hereto, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Silicon Image

11-14-01
Date

Badar Baqai
Badar Baqai
Executive Vice President, Engineering

CJD:jc

Enclosure:
Copy of Assignment

ASSIGNMENT

WHEREAS, we, Gyudong Kim and Min-Kyu Kim ("ASSIGNORS"), having post office addresses of 1012 S. De Anza Blvd., C204, San Jose, California 95129 and 20257 Vista Court, Cupertino, California 95014 respectively, are the joint inventors of an invention entitled "DIFFERENTIAL AMPLIFIERS USING ASYMMETRIC TRANSFER CHARACTERISTICS TO SUPPRESS INPUT NOISE IN OUTPUT LOGIC SIGNALS," as described and claimed in the specification forming part of an application for United States letters patent executed herewith.

WHEREAS, Silicon Image ("ASSIGNEE"), a corporation of the State of Delaware having a place of business at 1060 E. Arques Avenue, Sunnyvale, California 94085, is desirous of acquiring the entire right, title, and interest in and to the invention and in and to any patents that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, assign, and transfer unto ASSIGNEE, its legal representatives, successors, and assigns, the entire right, title and interest in and to the invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, or extensions thereof, any other inventions described in the application, and any and all patents of the United States of America and all foreign countries that may be issued for the invention, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from the United States application to which foreign applications are entitled by virtue of international convention, treaty or otherwise, the invention, application and all patents on the invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same

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would have been held and enjoyed by ASSIGNORS had this assignment, transfer, and sale not been made.

UPON THE ABOVE-STATED CONSIDERATIONS, ASSIGNORS agree to not execute any writing or do any act whatsoever conflicting with this assignment, and at any time upon request, without further or additional consideration but at the expense of ASSIGNEE, execute all instruments and documents and do such additional acts as ASSIGNEE may deem necessary or desirable to perfect ASSIGNEE's enjoyment of this grant, and render all necessary assistance required for the making and prosecution of applications for United States and foreign patents on the invention, for litigation regarding the patents, or for the purpose of protecting title to the invention or patents therefor.

ASSIGNORS authorize and request the Commissioner of Patents and Trademarks to issue any Patent of the United States that may be issued for the invention to ASSIGNEE.

Date

Nov-2-2001

Gyudong Kim

Gyudong Kim

State of

California

County of

Santa Clara

ss.

I certify that I know or have satisfactory evidence that Gyudong Kim is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated

2 NOV 2001

Signature of
Notary Public

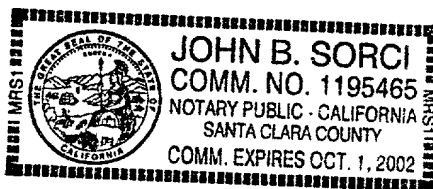
John B. Sorci

Printed Name

JOHN B. SORCI

My appointment expires

1 OCT 2002



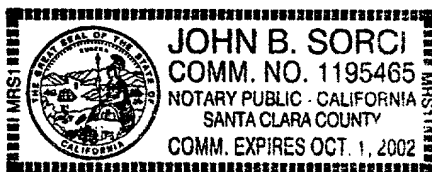
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11/2/2001 Min-Kyu Kim
Date Min-Kyu Kim

State of California)
County of Santa Clara) ss.

I certify that I know or have satisfactory evidence that Min-Kyu Kim is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 2 NOV 2001
Signature of Notary Public John B. Sorci
Printed Name JOHN B. Sorci
My appointment expires 1 Oct 2002



DECLARATION

As the below-named inventors, we declare that:

Our residences, post office addresses, and citizenships are as stated below under our names.

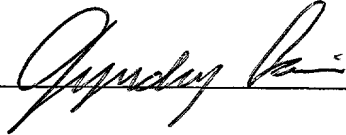
We believe we are the original, first, and joint inventors of the subject matter claimed and for which a patent is sought on the invention entitled "DIFFERENTIAL AMPLIFIERS USING ASYMMETRIC TRANSFER CHARACTERISTICS TO SUPPRESS INPUT NOISE IN OUTPUT LOGIC SIGNALS" in the foregoing specification and claims.

We have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

We acknowledge our duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56(a).

We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that the making of willfully false statements and the like is punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of any patent issuing from this patent application.

Gyudong Kim



Date

Nov 2-2001

Residence

:

City of San Jose

State of California

Citizenship

:

Korea

P.O. Address

:

1012 S. De Anza Blvd., C204
San Jose, California 95129

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Min-Kyu Kim

Date 11/2/2001

Residence : City of Cupertino
State of California

Citizenship : Korea

P.O. Address : 20257 Vista Court
Cupertino, California 95014

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